

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **MASS SPECTROMETRIC METHODS FOR BIOMOLECULAR SCREENING** the specification of which:

() is attached hereto.

(XX) was filed on March 2, 1999 as Application Serial No. 09/260,310.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Country	Number	Date Filed	Priority Claimed
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

I hereby claim th b n fit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in th mann r provided by the first paragraph of 35 U.S.C. § 112, I acknowledge th duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of th prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending)
<u>09/076,206</u>	<u>May 12, 1998</u>	<u>Pending</u>
<u>60/076,534</u>	<u>March 2, 1998</u>	<u>Pending</u>

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: John W. Caldwell and Paul K. Legaard, Registration Nos. 28,937 and 38,534 of the firm of WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, and Herb Boswell, Laurel Bernstein and Henry Wu, Registration Nos. 27,311, 37,280 and 44,412, of ISIS Pharmaceuticals, 2292 Faraday Avenue, Carlsbad, California 92008.

Address all telephone calls and correspondence to:

Paul K. Legaard
WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone No. 215-568-3100.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	Full Name: Stanley T. Crook	Inventor's Signature:	Date: 5/17/99
	Residence: 3211 Piragua Street Carlsbad, California 92009	Citizenship: United States	
	Post Office Address: 3211 Piragua Street Carlsbad, California 92009		
2	Full Name: Richard Griffey	Inventor's Signature:	Date
	Residence: 360 Barsby Street Vista, California 92084	Citizenship: United States	
	Post Office Address: 360 Barsby Street, Vista, California 92084		
3	Full Name: Steven Hofstadler	Inventor's Signature:	Date
	Residence: 5014 Viewridge Way Oceanside, California 92056	Citizenship: United States	
	Post Office Address: 5014 Viewridge Way Oceanside, California 92056		
4	Full Name:	Inventor's Signature:	Date
	Residence:	Citizenship:	
	Post Office Address:		
5	Full Name:	Inventor's Signature:	Date
	Residence:	Citizenship:	
	Post Office Address:		



Jur PKL *84*
UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

NOVEMBER 05, 2001

PTAS
WOODCOCK WASHBURN KURTZ MACKIEWICZ ET AL
PAUL K. LEGAARD
ONE LIBERTY PLACE, 46TH FLOOR
PHILADELPHIA, PENNSYLVANIA 19103-7301



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

Woodcock Washburn Kurtz
Mackiewicz & Norris LLP

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/04/2001

REEL/FRAME: 012127/0334
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
CROOKE, STANLEY T.

DOC DATE: 05/17/1999

ASSIGNOR:
GRIFFEY, RICHARD

DOC DATE: 05/17/1999

ASSIGNOR:
HOFSTADLER, STEVEN

DOC DATE: 05/17/1999

ASSIGNEE:
ISIS PHARMACEUTICALS, INC.
2292 FARADAY AVENUE
CARLSBAD, CALIFORNIA 92008

SERIAL NUMBER: 09884317
PATENT NUMBER:

FILING DATE: *6/15/01*
ISSUE DATE:

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6/15/01

012127/0334 PAGE 2

ALLYSON PURNELL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

IBIS-0369

06-2001

ER SHEET

9.401



To The Honorable Commissione

d th attached original documents or copy ther of.

1. Name of conveying party(ies):

101834691

Stanley T. Crooke

May 17, 1999

First Assignor

Date of Execution

Richard Griffey

May 17, 1999

S cond Assignor

Date of Execution

Steven Hofstadler

May 17, 1999

Third Assignor

Date of Execution

Fourth Assignor

Date of Execution

Fifth Assignor

Date of Execution

Sixth Assignor

Date of Execution

Additional name(s) of conveying party(ies) attached? () YES (X) NO

2. Name and address of receiving party(ies):

Name: ISIS Pharmaceuticals, Inc.

Stre t Address: 2292 Faraday Avenue SEP - 4

City: Carlsbad

State California

ZIP 92008

Additional name(s) & address attached? () YES (X) NO

3. Nature of Conveyance (check only one):

() New Assignment

() Merger

() License Agreement

() Security Agreement

() Change of Name

() Other:

(X) Cross-reference of Assignment filed in United States
Application No. 09/260,310, recorded on
06/10/99 at Reel No. 010011 and Frame No. 0194

4. Identification of Application number(s), patent number(s) OR date of execution of application to which assignment refers:

Application Nos.:

Patent Nos.:

Date application was signed by the first
named executing inventor

09/884,317

(Fill-in this date only if assignment is
filed together with a new application)5. Name and address of party to whom correspondence
concerning documents should be mailed:Paul K. Legaard
WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP
One Liberty Place - 46th Floor
Philadelphia, Pennsylvania 19103-7301
215-568-31006. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):\$40.00

(X) Enclosed

() Authorized to be charged to Deposit Account
Number 23-30508. Please charge any deficiency or credit any
overpayment to Deposit Account Number 23-3050

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Paul K. Legaard/Reg. No. 38,534

Name of Person Signing/Reg. No.

Signature

August 29, 2001

Date

Total number of pages including cover sheet, assignment document and additional pages attached thereto: 7

Mail documents to be recorded with required cover sheet information to:

09/06/2001 LNUELLER 00000060 09884317

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

1 FC:581

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ASSIGNMENT

WHEREAS, We, Stanley T. Crooke, of Carlsbad, California, Richard Griffey of Vista, California and Steven Hofstadler of Oceanside, California, have invented a certain invention entitled **MASS SPECTROMETRIC METHODS FOR BIOMOLECULAR SCREENING**, for which we have made application for Letters Patent of the United States, said application having been filed on March 2, 1999 and assigned Application No. 09/260,310; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

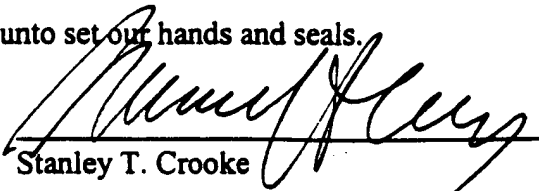
NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: MAY 17, 1999

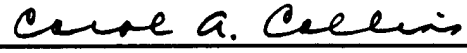

Stanley T. Crooke

State of California)
)
County of San Diego) ss.

On this 17th day of MAY, 1999, before me, the undersigned, a Notary Public for the state, personally appeared (Stanley T. Crooke) personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that ~~he~~she executed the same in ~~his~~her authorized capacity, and that by ~~his~~her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.


Signature of Notary

Dated: MAY 17, 1999, 1999Richard Griffey
(Richard Griffey)

State of California)
)
County of San Diego) ss.

On this 17th day of MAY, 1999, before me, the undersigned, a Notary Public for the state, personally appeared (Richard Griffey) personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that ~~he/she~~ executed the same in ~~his/her~~ authorized capacity, and that by ~~his/her~~ signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

Carol A. Collins
Signature of Notary

Dated: MAY 17, 1999Steven A. Hofstadler
(Steven Hofstadler)State of California)
) ss.
County of San Diego)

On this 17th day of MAY, 1999, before me, the undersigned, a Notary Public for the state, personally appeared (Steven Hofstadler) personally known to me/~~proved to me on the basis of satisfactory evidence~~ to be the person who subscribed the foregoing Assignment and acknowledged to me that ~~he/she~~ executed the same in ~~his/her~~ authorized capacity, and that by ~~his/her~~ signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

Carol A. Collins
Signature of Notary

Dated: _____, 1999

(_____)

State of California)

) ss.

County of San Diego)

On this _____ day of _____, 1999, before me, the undersigned, a Notary Public for the state, personally appeared (_____) personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary